

# Stakeholder Experience and New Ideas to Better Capture the Benefits of Renewable Energy

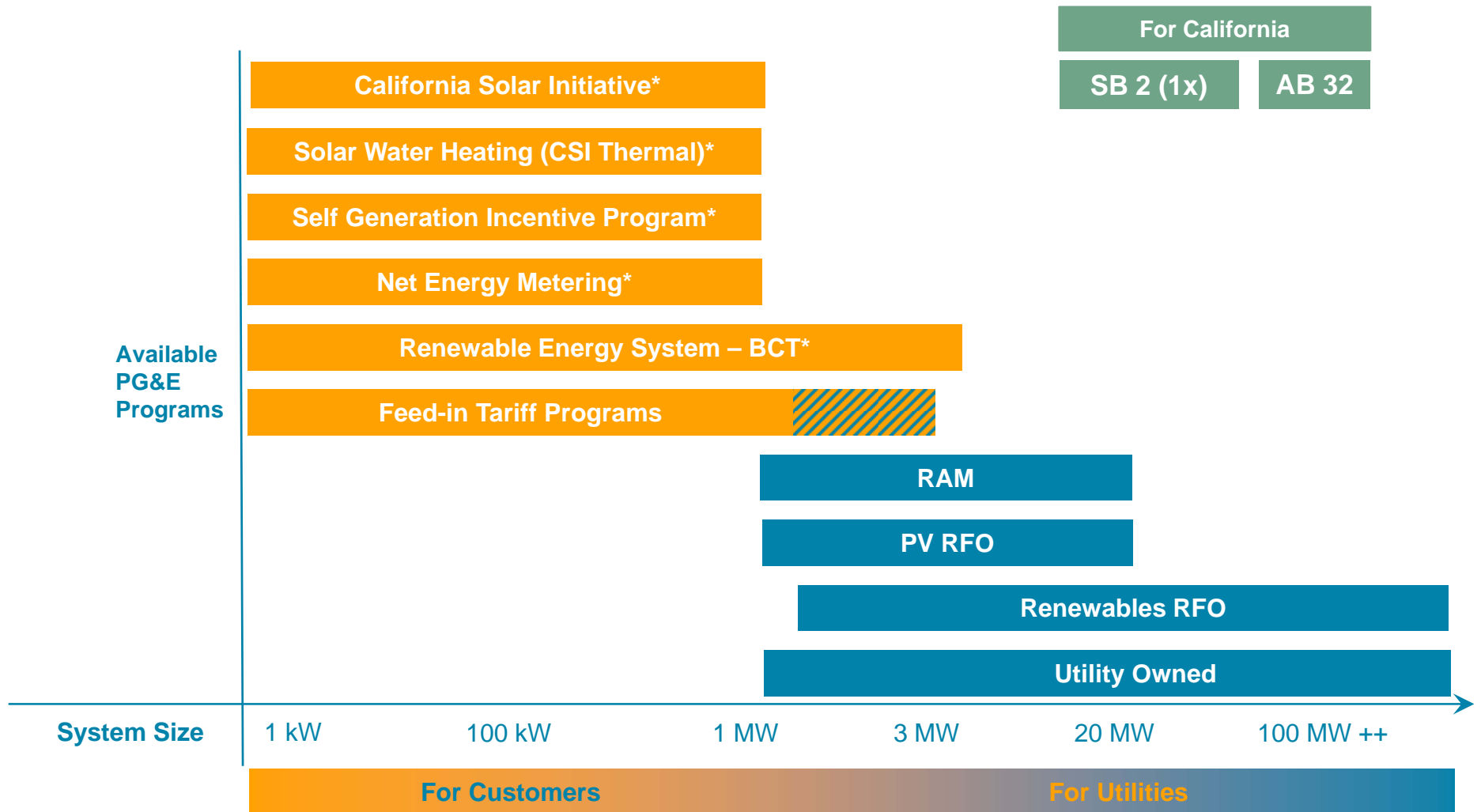
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Director  
Renewable Energy Policy & Strategy

Workshop on Benefits of Renewable Energy  
CEC: 2012 Integrated Energy Policy Update  
April 12, 2012





# Renewable Energy Programs



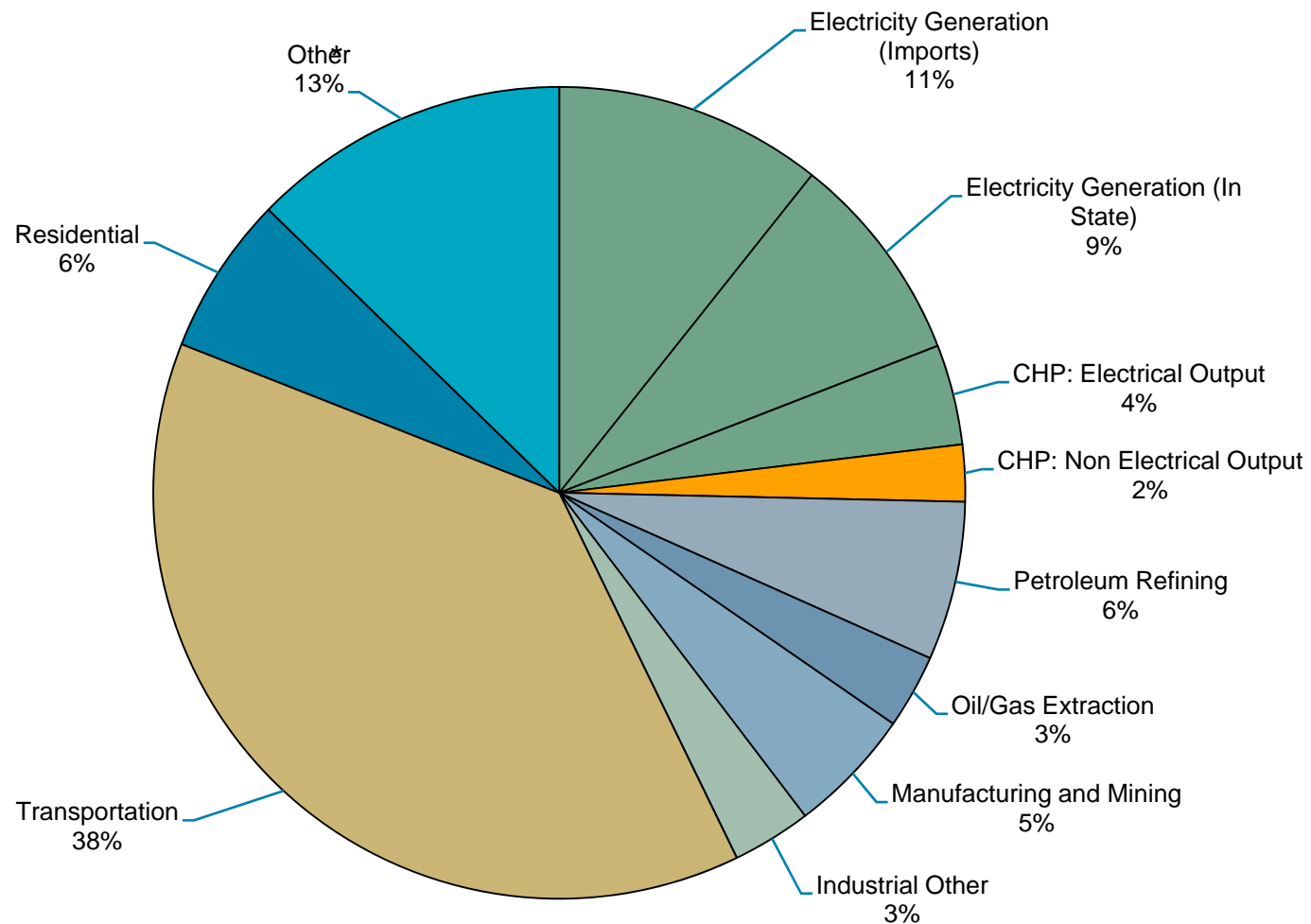
Note: not all programs count towards RPS requirements

 in regulatory proceeding



# GHG Emissions by Sector – Statewide

## California Greenhouse Gas Emissions – 2009



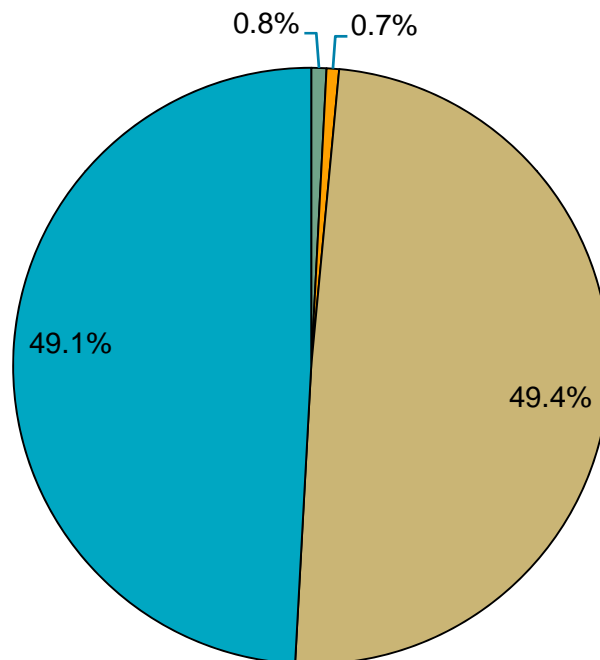
**Source:** Data from ARB Greenhouse Gas Inventory: [http://www.arb.ca.gov/cc/inventory/data/tables/ghg\\_inventory\\_by\\_sector\\_00-09\\_2011-10-26.xls](http://www.arb.ca.gov/cc/inventory/data/tables/ghg_inventory_by_sector_00-09_2011-10-26.xls) or [http://www.arb.ca.gov/cc/inventory/data/tables/ghg\\_inventory\\_sector\\_00-09\\_sum\\_2011-10-26.pdf](http://www.arb.ca.gov/cc/inventory/data/tables/ghg_inventory_sector_00-09_sum_2011-10-26.pdf), "Inventory by Economic Sector" showing Total Gross Emissions of 452.97 million metric tons of CO<sub>2</sub>-equivalent, accessed April 9, 2012.

**\*Notes:** "Other" Category includes Agriculture & Forestry, Commercial and unspecified sources.

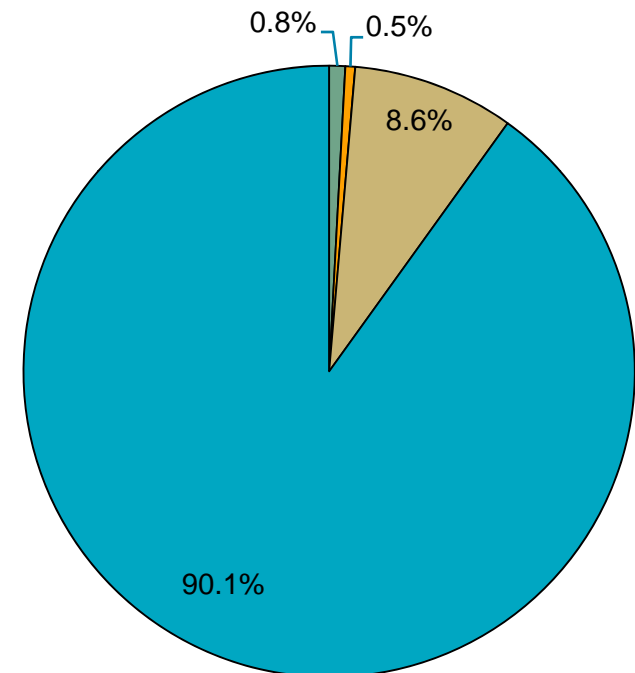


## Air Pollutant Emissions by Sector – Statewide

Statewide Emissions 2008 –  
 $\text{NO}_x$



Statewide Emissions 2008 –  
Particulate Matter



- Electric Utilities
- Cogeneration (CHP)
- On-Road Motor Vehicles
- Other\*

**Source:** data from ARB air-pollutant emission inventory, at: [http://www.arb.ca.gov/app/emsinv/emssumcat\\_query.php?F\\_YR=2008&F\\_DIV=-4&F\\_SEASON=A&SP=2009&F\\_AREA=CA](http://www.arb.ca.gov/app/emsinv/emssumcat_query.php?F_YR=2008&F_DIV=-4&F_SEASON=A&SP=2009&F_AREA=CA)

**\*Note:** "Other" category includes but is not limited to, ocean going vessels, off-road equipment, trains, farm equipment, manufacturing and fuel combustion, food and agricultural processing, managed burning and disposal, mineral processes, construction and demolition



# Evaluation Criteria for Renewable Contracts

*PG&E considers a variety of factors consistent with criteria adopted by the CPUC when determining the value of a renewable technology bidding into the RPS competitive solicitations. Other procurement programs established by the CPUC are first-come-first served (small generator feed-in tariff) or are selected primarily upon cost factors (Renewable Auction Mechanism).*

